In the Claims

This listing of claims will replace all prior versions and listings of claims in the application:

Claims 1-46 (Canceled)

- 47. (previously amended) A hardened voyage recorder for use on a marine vessel, comprising:
 - (a) a first module including a mountable base mountable on the marine vessel and containing electronics for receiving data from data sensors located on the marine vessel and for writing data to a memory module;
 - (b) a removable memory module removably coupled to said first module, said memory module including
 - (i) an outer housing including an inner cavity for containing a solid state memory;
 - (ii) a cover for said outer housing;
 - (iii) a thermal insulator located within said inner cavity defining at least a portion of a second interior cavity, with said solid state memory being located within said second inner cavity; and
 - (iv) a boiler located within said second interior cavity including a containment compartment for containing a thermal mass, a protective compartment within which said solid state memory is located and means for interconnecting said containment compartment and said protective compartment, wherein said

means for interconnecting, when open, provides a passageway between said containment compartment and said protective compartment.

- 48. (previously amended) The apparatus as set forth in claim 47 wherein solid state memory includes BGA memory.
- 49. (previously amended) The apparatus as set forth in claim 47 wherein said solid state memory is stacked memory.
- 50. (previously amended) The apparatus as set forth in claim 47 wherein said boiler includes a cover plate which covers said protective compartment, said cover plate defines a through hole spaced apart from its edge, and said solid state memory is coupled to a cable which extends through said through hole.
- 51. (previously amended) The apparatus as set forth in claim 50 wherein said through hole is substantially circular.
- 52. (previously amended) The apparatus as set forth in claim 50 wherein said cover plate is press fit to said boiler.
- 53. (previously amended) The apparatus as set forth in claim 47 wherein said thermal mass includes a phase change material (PCM).
- 54. (previously amended) The apparatus as set forth in claim 53 wherein said PCM utilizes the energy absorption from vaporization to absorb heat.

- 55. (previously amended) The apparatus as set forth in claim 53 wherein said PCM is water.
- 56. (previously amended) The apparatus as set forth in claim 55 wherein said water is contained in a dry material which inhibits the water from freezing or expanding.
- 57. (previously amended) The apparatus as set forth in claim 56 wherein said dry material comprises sponge, silica, polyacrylamide, calcium silicate or pottery clay.
- 58. (previously amended) The apparatus as set forth in claim 47 wherein said thermal mass is a dry powder formed by combining water and silica.
- 59. (previously amended) The apparatus as set forth in claim 47 wherein said thermal mass absorbs shock.
- 60. (previously amended) The apparatus as set forth in claim 59 wherein said thermal mass is a gel formed by combining water and polyacrylamide.
- 61. (previously amended) A boiler as set forth in claim 47 further comprising a fusible valve that opens at a predetermined temperature to allow said thermal mass to flow through said passageway.
- 62. (previously amended) A boiler as set forth in claim 61 wherein said fusible valve comprises at least one thermal vent plug which is released at a predetermined temperature.

- 63. (previously amended) A boiler as set forth in claim 62 wherein said thermal vent plug comprises wax, paraffin, a bismuth alloy or electrical solder.
- 64. (previously amended) The apparatus as set forth in claim 57 wherein said cover for said outer housing is coupled to said outer housing with a snap ring.
- 65. (previously amended) The apparatus as set forth in claim 64 wherein said cover for said outer housing is coupled to said outer housing with two snap rings.
- 66. (previously amended) The apparatus as set forth in claim 47 wherein said outer housing withstands a penetration of a 100mm 250kg projectile at three meters.
- 67. (previously amended) The apparatus as set forth in claim 47 wherein said outer housing will withstand a 50g s, 11 ms half sine shock.
- 68. (previously amended) The apparatus as set forth in claim 47 wherein said outer housing will withstand an immersion of 6,000 meters depth.
- 69. (previously amended) The apparatus as set forth in claim 47 wherein said solid state memory is protected from temperatures on the order of 260°C for approximately ten hours.

Claims 70-79 (canceled)

- 80. (previously amended) A hardened voyage data recorder, comprising:
- (a) a removable memory subsystem having a lower flange;
- (b) a mounting base subsystem having an upper flange; and
- (c) a quick release clamp engaging said upper flange and said lower flange whereby said memory subsystem and said base subsystem are removably coupled to each other.
- 81. (previously amended) A hardened voyage data recorder according to claim 80, wherein:

said quick release clamp has two quick release levers.

82. (previously amended) A hardened voyage data recorder according to claim 80, wherein:

said mounting base subsystem includes at least one watertight cable connector.

83. (previously amended) A hardened voyage data recorder according to claim 80, wherein:

said mounting base subsystem includes a first watertight cable connector for coupling with a power supply and a second cable connector for coupling with a data source.

84. (previously amended) A hardened voyage data recorder according to claim 80, wherein:

one of said upper flange and said lower flange has a groove adapted to receive an O-ring.